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LISTING OF THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

- 1 1. (original) An optical receiver for receiving an RZ-duobinary optical signal at a
- 2 bit rate B bits per second, the receiver comprising:
- an optical bandpass filter responsive to the RZ-duobinary optical signal for
- 4 filtering the signal within a passband of B Hz; and
- an optical detector for recovering data from the filtered RZ-duobinary optical
- 6 signal.
- 1 2. (previously presented) The optical receiver as defined in claim 1 wherein a center
- 2 frequency of the optical bandpass filter is detuned from a center frequency of the RZ-
- duobinary optical signal by an amount less than or equal to $\pm 0.1 \times B$.
- 1 3. (original) An optical receiver for receiving an RZ-duobinary optical signal at a
- 2 bit rate B bits per second, the receiver comprising:
- an optical bandpass filter responsive to the RZ-duobinary optical signal for
- 4 filtering the signal within a passband having a bandwidth greater than or equal to 0.7 x B
- 5 Hz and less than or equal to 1.3 x B Hz; and
- an optical detector for recovering data from the filtered RZ-duobinary optical
- 7 signal.
- 1 4. (original) A method for receiving a duobinary optical signal having a data bit rate
- 2 of B bits per second, the method comprising the steps of:
- 3 bandpass filtering the signal through a passband substantially equal to B Hz; and
- 4 recovering data from the filtered signal, wherein the signal conforms to an RZ-
- 5 duobinary signaling format.

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- 1 5. (previously presented) The method as defined in claim 4 wherein a center
- 2 frequency of the optical bandpass filter is detuned from a center frequency of the RZ-
- 3 duobinary optical signal by an amount less than or equal to $\pm 0.1 \times B$.
- 1 6. (original) A method for receiving a duobinary optical signal having a data bit rate
- 2 of B bits per second, the method comprising the steps of:
- 3 bandpass filtering the signal through a passband having a bandwidth greater than
- 4 or equal to 0.7 x B Hz and less than or equal to 1.3 x B Hz; and
- recovering data from the filtered signal, wherein the signal conforms to an RZ-
- 6 duobinary signaling format.
- 1 7. (original) An optical transmission system comprising:
- an optical transmitter for generating an RZ-duobinary optical signal at a bit rate B
- 3 bits per second;
- an optical transmission medium coupled to the optical transmitter for supporting
- 5 propagation the RZ-duobinary optical signal;
- an optical bandpass filter coupled to an output of the optical transmission medium
- 7 and being responsive to the RZ-duobinary optical signal for filtering the signal within a
- 8 passband of B Hz; and
- 9 an optical detector for recovering data from the filtered RZ-duobinary optical
- 10 signal.
 - 1 8. (previously presented) The optical transmission system as defined in claim 7
 - 2 wherein a center frequency of the optical bandpass filter is detuned from a center
 - 3 frequency of the RZ-duobinary optical signal by an amount less than or equal to $\pm 0.1 \times B$.
 - 1 9. (original) An optical transmission system comprising:
 - an optical transmitter for generating an RZ-duobinary optical signal at a bit rate B
 - 3 bits per second;
 - an optical transmission medium coupled to the optical transmitter for supporting
 - 5 propagation the RZ-duobinary optical signal;

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- an optical bandpass filter coupled to an output of the optical transmission medium
- 7 and being responsive to the RZ-duobinary optical signal for filtering the signal within a
- 8 passband having a bandwidth greater than or equal to 0.7 x B Hz and less than or equal to
- 9 1.3 x B Hz; and
- an optical detector for recovering data from the filtered RZ-duobinary optical
- 11 signal.